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APPLICATION NO	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,406 08/19/2003		8/19/2003	Wen Fei Yu	10541-1850	3454
29074	7590	06/02/2005		EXAMINER	
VISTEON	Ţ		LEO, LEONARD R		
C/O BRINI	KS HOFER	<b>GILSON &amp; LIONE</b>			
PO BOX 10	0395			ART UNIT	PAPER NUMBER
CHICAGO	, IL 60610	)	•	3753	
				DATE MAILED: 06/02/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Action Summan	10/643,406	YU, WEN FEI	
Office Action Summary	Examiner	Art Unit	
	Leonard R. Leo	3753	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati  - If the period for reply specified above is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON.  FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of this period will apply and will expire SIX (6) MOI statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communicati BANDONED (35 U.S.C. § 133).	ion.
Status			
<ul> <li>1) ☐ Responsive to communication(s) filed on</li> <li>2a) ☐ This action is FINAL. 2b) ☐</li> <li>3) ☐ Since this application is in condition for all closed in accordance with the practice unit</li> </ul>	This action is non-final.	· •	is
Disposition of Claims			
4) ⊠ Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1-11 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and sub	thdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Exa 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the contents.	accepted or b) objected to to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	l (d).
11)☐ The oath or declaration is objected to by t	he Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of: 1. Certified copies of the priority docu		} 119(a)-(d) or (f).	
2. Certified copies of the priority docu		opplication No	
3. Copies of the certified copies of the			

application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date 8/03, 12/04.

4)	Ш	Interview Summary (PTO-413
		Paner No/s\/Mail Date

5) Notice of Informal Patent Application (PTO-152)

6) Other: \_\_\_\_\_.

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2 and 7-11 are rejected under 35 U.S.C. 102(a) as being anticipated by Modine (1,730,470)(Figure 9), Modine (1,893,521) or Hughes et al (Figures 1-2). Regarding claim 1, the recitation of a "header" does not structurally define over the fins of the respective prior art references. Regarding claims 9-11, the juncture of respective prior art references inherently meets the claim limitations.

Claims 1-2 and 7-11 are rejected under 35 U.S.C. 102(a) as being anticipated by Taisuke et al. Regarding claims 9-11, the juncture of Taisuke et al inherently meets the claim limitations.

Claims 1-2 and 7-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Kobayashi et al (Figure 22). Regarding claims 9-11, the juncture of Kobayashi et al inherently meets the claim limitations.

Claims 1-2 and 7-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Ryan et al. Regarding claims 9-11, the juncture of Ryan et al inherently meets the claim limitations.

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Claims 1-2 and 7-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Kato et al (Figure 7). Regarding claims 9-11, the juncture of Kato et al inherently meets the claim limitations.

Claims 1-2 and 7-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Gowan et al (Figures 3-4). Regarding claims 9-11, the juncture of Gowan et al inherently meets the claim limitations.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taisuke et al, Kobayashi et al, Ryan et al, Kato et al or Gowan et al.

Taisuke et al, Kobayashi et al, Ryan et al, Kato et al or Gowan et al discloses all the claimed limitations except specific dimensions.

To employ a specific dimension is considered to be an obvious design expedient, producing no new and/or unexpected results and solving no stated problem. It would have been obvious to one of ordianry skill in the art to employ any structural dimension to achieve a desired strength, pressure drop and/or heat exchange.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonard R. Leo whose telephone number is (571) 272-4916. The examiner can normally be reached on Monday thru Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene can be reached on (571) 272-4930. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leonard R. Leo Primary Examiner

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May 29, 2005